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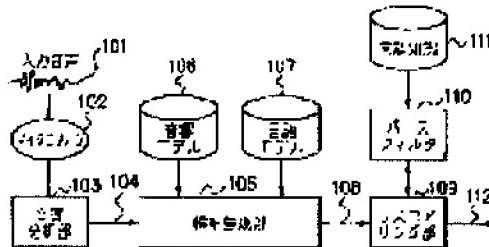
(21)Application number : 11-100990 (71)Applicant : NEC CORP
(22)Date of filing : 08.04.1999 (72)Inventor : HANAZAWA TAKESHI

(54) DEVICE AND METHOD FOR VOICE RECOGNITION AND STORAGE MEDIUM WHICH STORES PROGRAM

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a highly precise recognition result relative to recognition result candidates, which are obtained based on statistical language information, by determining the adaptability of the candidates using language knowledge.

SOLUTION: Input voice 101 inputted from a microphone 102 is analyzed by an acoustic analysis section 103 and an acoustic feature amount group 104 is extracted. A candidate generating section 105 generates correct candidates that are made up with word groups in which the product of the likelihood given by an acoustic model 106, and the likelihood given by a language model 107 becomes a maximum with respect to the group 104. Plural correct candidates have succeeding likelihood and output these candidates in a form of a word graph 108. In a rescoring section 109, discrimination is made for the grammatical adaptability of the graph 108. In other words, a filtering is conducted for the graph 108 by a pass filter 110 using language knowledge 111 and a recognition result 112 is outputted.



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